AMENDMENTS TO THE SPECIFICATION

Please replace Paragraphs [0016], [0017] and [0034] with the following paragraphs rewritten in amendment format:

[0016] FIG. 7 is a perspective process view illustrating the assigning of pixel intensities of the resized object image according to the full intensity comparison method; ~~and~~

[0017] FIG. 8a illustrates a yaw variance[,] ~~a pitch variance, and a roll variance~~ of a sample docking operation[.];

[0034] Target attitude determination has been identified as a key technology for autonomous rendezvous and capture for micro satellite programs. Until now, this technology has not been available with the accuracy necessary to perform this task. However, preliminary analysis using the method of the present invention shows that this method can discriminate small (< 0.2°) attitude differences. This permits the successful docking and station-keeping missions in situations where precise orientation of the target satellite is critical. For example, as seen in FIGS. 8a-c, the present invention is capable of discriminating among images of varying pixel resolution. It is important to note that the variance approaches zero as the misalignment approaches zero degrees for all three rotational modes (pitch, yaw, and roll).

Please add the following paragraphs.

[0017.1] FIG. 8b illustrates a pitch variance of a sample docking operation; and

[0017.2] FIG. 8c illustrates a roll variance of a sample docking operation;